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Agricultural Memorandum No 746

Variation of accumulated day-degrees of winter frost with height

L P Smith

Analysing regionally the areal values of average day-degrees of winter frost against height (in metres), it was found:-

		Correl
North East England	222.5 + 0.78h	(0.95)
North West England	195.2 + 0.74h	(0.99)
N Midlands E Anglia	243 + 0.43h	(0.94)
S Midlands	189.8 + 0.53h	(0.44)
SE England	149 + 0.83h	(0.60)
SW England	37.7 + 0.66h	(0.71)
Wales	81 + 0. 8h	(0.96)

Using the formula in Ag Mem 699 and applying a height correction of 0.6°C per 100m, the England and Wales increase with height would become 61 per 100m. If a mean of the above regional values is taken by first subtracting the censtant term and then finding the mean gradient the answer is 62 per 100m.

Any comments or suggestions on this paper should be referred to the author.

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Bracknell
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